

```
> -----//^.....\\
> (*( *( *( *( *( INET Bulletin ) *) *) *) *) *)
> -----\\vvvvvvvvvvvvvvvvvv//-----
>
>DATE: April 18, 1995
>SUBJ: QRP bandwidths reserved
>
>=====
>
>We tried it once before and not much happened.
>So I'm going to try it now with a bit more
>determination.
>
>I proclaim that 14.100 to 14.110 is now reserved for
>QRP CW operation. Since it is reserved for QRP ops
>you must call CQ otherwise we won't know if we're
>there waiting for a QS0.
>
>So go up there, call CQ and include INET somewhere
>in the call.
>
>I also proclaim that 10.123 is the INET QRP calling
>frequency. There may be some digital stuff there so
>tune down from 10.123 when QRM (man made) is loud.
>
>
>=====
```

>7.3 de Michael aa0ub | QRP:
>miker@cc.com Norcal #857 | A large but quiet force.
>=====

From owner-qrp-1@netcom.com Thu Apr 20 07:04:55 1995
Date: Wed, 19 Apr 95 14:08:35 MDT
From: miker@cc.com (Mike Robinson)
Message-Id: <9504192008.AA19797@cc.com >
Subject: Re: 14.060 use it or lose it

You're right. But I wonder if the QRP frequencies are always
overrun the digitals and QRO's is because they can't hear us
or figure we're in the skip zones. Another thing that bothers
me is a statement I heard from a couple of digitites.
They said that they quite often turn off the external audio.
How then can they tell if they are stepping on a QSO, QRP or otherwise?

=====

7.3 de Michael aa0ub | QRP:
miker@cc.com Norcal #857 | "This thing's a radio?"
=====

From owner-qrp-1@netcom.com Wed Apr 19 22:04:35 1995
From: Byron8LCZ@aol.com
Date: Wed, 19 Apr 1995 14:34:08 -0400
Message-Id: <950419143406_88728387@aol.com>
Subject: Re: 30m QRP

After listening to 14.100 thru 110 for a few days now, there are quite a few
amtor'ites on those freqs, all of a sudden. When i listened in the past, it
was quiet. guess it depends on band conditions.

Most of the time, when i listen to 14.060, its quiet or i hear amtor, QRO
qso's, guys calling other guys on sked, very little QRP to QRP qsos. We need
to keep these calling freqs active or we will lose them for good. the 100w
amtor'ites dont always move when they hear our puny little signals, if they
even bother to listen before transmitting. We need to use 14.060 thru 065 on
a regular basis. I'm getting tired of being pushed off the International QRP
calling freq by amtor and QRO users. The ARRL doesnt seem to care, since
they're pushing for digital modes. Its up to us, to use em or lose em. See
you on 14.060 to 065

this also applies to 7.040 to 045

72, Byron WA8LCZ Detroit

From owner-qrp-1@netcom.com Thu Apr 20 06:44:51 1995
From: DSLADE@delphi.com
Date: Wed, 19 Apr 1995 21:28:27 -0400 (EDT)
Subject: Amidon correct address
Message-Id: <01HPJD7AY2JM99G7AJ@delphi.com>

Thanks to all who responded to my inquiry about the Amidon address. You sent me 4 different ones..... the current one is:

Amidon Assc.
3122 Alpine Way
Santa Ana, Calif. 92074
tel 714-850-4660

Thanks again, de Dave, K2SJB

From owner-qrp-1@netcom.com Wed Apr 19 13:41:01 1995
Message-Id: <9504191328.AA09401@us1rmc.bb.dec.com>
Date: Wed, 19 Apr 95 09:36:46 EDT
From: "Dennis, K1YPP, 226-5982" <blanchard@nac.ENET.dec.com>
Subject: Another Lecture/demonstration at Dayton.

Hi folks:

I don't recall who asked about forums at Dayton, but I will also be giving one on batteries and charging technology on Saturday afternoon. It is not too clear to me at this point, but I think it is lumped into a Technology Forum (that may even be the title).

It will cover where batteries are going and take a look at some of the new technologies that are evolving. Also covered will be the charger technology needed to service these batteries. Since so many folks on QRP are battery powered I thought I would drum up an audience here. Stop by and say hello if you have a chance.

If conflicting forums prevent you from attending, stop by the Jade Products Inc. booth and say hello anyway. If you are involved in a club that does a newsletter, bring along a 3.5" diskette and I can give you a copy of the lecture for a newsletter. The copy is in both Word for Windows V2.0 and V6.0 or ASCII text. The ASCII text doesn't have encapsulated drawings, but hard copies are available.

Dennis, K1YPP

From owner-qrp-l@netcom.com Wed Apr 19 02:13:40 1995
Message-Id: <199504190314.UAA29504@netcom23.netcom.com>
Subject: Re: Cheap Easy Keyer?
Date: Tue, 18 Apr 95 20:11:36 PDT
From: "Stan Goldstein, N6ULU" <stan@cruzio.com>

Jim Stafford-W4QO writes:

>
> Ten-Tec has a keyer kit listed in their catalog for \$9.00. It is for
> single key paddles, i.e. non-iambic. The part number is 1553. It
> includes speed control + weight control (which I find to be very useful
> especially on some qrp rigs(i.e. HW-9)) and sidetone pitch.
>
> In fact, I think I'll get one at Dayton if someone has them or order one
> later. There is a \$15 min and \$5 shipping, so you may want to order the
> 10 db/1.5 watt utility amp (#1550) for \$8 or the active antenna (#1552)
> for \$12 at the same time. Both of these kits are useful to QRPers. Plus
> the Regenerative shortwave receiver has been mentioned on Internet in the
> past. It is part #1054 and is \$17.
>
> 73/72/jim/w4qo

I bought 2 of these 9 dollar keyers and built one of them . Nice little
kit BUT..

I didn't like the way it works because of one thing. It has no memory.
I don't mean the kind that you can store a message in. What happens ,
if I am sending fast, is you can't get ahead of the keyer.
For instance if you are are sending an "N" , the dah must be completed
before the keyer will accept the dit.
I would say it is a good starter keyer and or code practice oscillator.

PS no reasonable offer refused on either the completed kit or the "still
in the bag" one.

--

72.25 (I still use high power when I need it)
Stan Goldstein , N6ULU

From owner-qrp-l@netcom.com Wed Apr 19 11:22:44 1995
Message-Id: <m0s1a79-000E1jC@dorite.iquest.net>
Date: Wed, 19 Apr 95 08:48 EST
From: allenj@iquest.net (Allen Jones)
Subject: Re: Cheap Easy Keyer?

>Ten-Tec has a keyer kit listed in their catalog for \$9.00. It is for

>single key paddles, i.e. non-iambic. The part number is 1553. It
>includes speed control + weight control (which I find to be very useful
>especially on some qrp rigs(i.e. HW-9)) and sidetone pitch.
>

I bought two of these keyer kits thinking they would be nice to build into my NN1G Mk II and NE 4040.

There is a problem. The common connection for the keyer is not at ground potential. If you build it into the radio you will have to insulate the key jack. Ten Kit suggests mounting it inside the box that encloses the paddle (the single lever paddle they sell is built inside a steel enclosure).

I think the Curtis chip is still probably your best bet.

72/73 Allen - K9DZE

From owner-qrp-1@netcom.com Wed Apr 19 22:04:51 1995
Message-Id: <n1413823957.65542@mailgate.mc.com>
Date: 19 Apr 1995 13:32:06 -0400
From: "Bob Levine" <bob_levine@mc.com>
Subject: Re: Cheap Easy Keyer?

Reply to: RE>>Cheap Easy Keyer?

I am not sure what this group considers cheap, but Oak Hills Research makes a Keyer Kit based on the Curtis chip. It has adjustable weighting, and can be strapped for Curtis A or B keying. Externally there is a speed pot adjustment, a straight key output (to rig), iambic key input (from paddles), a tune switch (to key the rig for antenna tuning), and power connector. You need to provide your own enclosure or build the board into an existing kit. The board is about 2" x 2" (+/-).

I built it into a small Radio Shack plastic box. I put a barrel connector on my Explorer QRP kit for 12V output (connected to the internal power connector) to provide the 12V input to the keyer to save an extra connection to my power source. It can also run off a 9v battery that you can build in like some have done.

The kit is \$39.95 and shipping is free from Radio Devices. Contact bob@raddev.com for ordering info.

Date: 4/19/95 12:33 PM
To: Bob Levine
>From: Allen Jones
Received: by mailgate.mc.com with SMTP;19 Apr 1995 12:31:39 -0400
Received: from firewall.mc.com (firewall [192.148.197.15]) by jericho =
(8.6.11/8.6.11) with SMTP id MAA02409 for <levine@mc.com>; Wed, 19 Apr =
1995 12:31:29 -0400
Received: by firewall.mc.com id AA17988
(5.65c/IDA-1.4.4 for <levine@mc.com>); Wed, 19 Apr 1995 12:31:24 -0400
Received: from netcom.netcom.com(192.100.81.100) by firewall via smap =
(V1.3)
id sma017981; Wed Apr 19 12:31:13 1995
Received: by netcom.netcom.com (8.6.12/Netcom)
id GAA27756; Wed, 19 Apr 1995 06:51:44 -0700
Received: from dorite.iquest.net by netcom.netcom.com (8.6.12/Netcom)
id GAA27738; Wed, 19 Apr 1995 06:51:42 -0700
Received: from ts1-ind-14.iquest.net by dorite.iquest.net with smtp
(Smail3.1.28.1 #16) id m0s1a79-000E1jC; Wed, 19 Apr 95 08:48 EST
Message-Id: <m0s1a79-000E1jC@dorite.iquest.net>
Date: Wed, 19 Apr 95 08:48 EST
X-Sender: allenj@pop.iquest.net
Mime-Version: 1.0
Content-Type: text/plain; charset=3D"us-ascii"
To: Jim Stafford-W4Q0 <w4qo@america.net>
>From: allenj@iquest.net (Allen Jones)
Subject: Re: Cheap Easy Keyer?
Cc: qrp-l@netcom.com
X-Mailer: <PC Eudora Version 1.4>
Sender: owner-qrp-l@netcom.com
Precedence: list

>Ten-Tec has a keyer kit listed in their catalog for \$9.00. It is for
>single key paddles, i.e. non-iambic. The part number is 1553. It
>includes speed control + weight control (which I find to be very useful
>especially on some qrp rigs(i.e. HW-9)) and sidetone pitch.
>

I bought two of these keyer kits thinking they would be nice to build into =
my NN1G Mk II and NE 4040.

There is a problem. The common connection for the keyer is not at ground
potential. If you build it into the radio you will have to insulate the =
key
jack. Ten Kit suggests mounting it inside the box that encloses the =
paddle

(the single lever paddle they sell is built inside a steel enclosure).

I think the Curtis chip is still probably your best bet.

72/73 Allen - K9DZE

From owner-qrp-l@netcom.com Wed Apr 19 22:07:37 1995

From: LVE1@inel.gov

Message-Id: <9504191444.AA23109@garnet.inel.gov>

Date: Wed, 19 Apr 1995 08:45:17 -0600

Subject: Re: Cheap Easy Keyer?

>Ten-Tec has a keyer kit listed in their catalog for \$9.00. It is for
>single key paddles, i.e. non-iambic. The part number is 1553. It
>includes speed control + weight control (which I find to be very useful
>especially on some qrp rigs(i.e. HW-9)) and sidetone pitch.
>

You can cure the weighting problem in the HW-9 by installing a pull-up resistor from the keying line to +12V (think I used 10K, but not sure).

72, Larry W1HUE/7

From owner-qrp-l@netcom.com Wed Apr 19 23:03:45 1995

Message-Id: <199504191727.KAA13927@netcom23.netcom.com>

Subject: Re: Cheap Easy Keyer?

Date: Wed, 19 Apr 95 10:28:37 PDT

From: "Stan Goldstein, N6ULU" <stan@cruzio.com>

>
> There is a problem. The common connection for the keyer is not at ground
> potential. If you build it into the radio you will have to insulate the key
> jack. Ten Kit suggests mounting it inside the box that encloses the paddle
> (the single lever paddle they sell is built inside a steel enclosure).

> 72/73 Allen - K9DZE

Yes the isolation required is specified in the instructions.
But it isn't a problem. The common jacks sold at Radio Shack
and probably most other places (not the open frame type) have
their body made out of plastic and a small plastic ridge around
the center of the threaded metal neck. The ridge keeps the neck
centered and prevents it from making contact with the case of the
rig. A small nylon washer , available in any hardware store goes

between the hold-down nut and the case to complete the job.

--

72.25 (I still use high power when I need it)
Stan Goldstein , N6ULU

From owner-qrp-1@netcom.com Thu Apr 20 07:17:36 1995
Date: Wed, 19 Apr 1995 10:15:56 -0500
From: adams@chuck.dallas.sgi.com (chuck adams)
Message-Id: <199504191515.KAA22567@chuck.dallas.sgi.com>
Subject: Dayton Building Test

Gang,

I saw Doug Hendricks, KI6DS, yesterday evening in
MtView and I have seen the board for the contest.

I think you will love it. Although I am not entering
the contest, I just might get one of the boards to
play with. Actually I may have to take the design and
add some stuff. Some that Doug suggested and somethat
that I have in mind.

So, those of you are going to enter (50 limit I think).
Be sure to bring all your building tools, solder iron
and solder, dikes, needle nose pliers (chain nose),
.... It should be a blast.

I'll put up a years sub to QRPP for one of the prizes
and let Doug choose the catagory. Any one else wanna to
sponsor a prize, hop right in.

I also gave him a 35wpm tape to play in the car when
he isn't listening on 80m with Ephyite (sp?). He has
a real neat installation using the rig in a Sierra case
and mounted to a small board that sits in the open slot
above the gear shift (floor).

Hope he remembers to bring photos to Dayton to show the
setup. I'm bringin photos of the long wire and the
pile of rigs sitting on top of the desk.

dit
dit de k5fo/6

p.s. sorry we couldn't do the Two Guys from Italy, but

it's one of those fast trips and Doug called at 4 and was here by 6 for one hour. The guy is dedicated.

Chuck Adams K5FO CP-60 adams@sgi.com

From owner-qrp-l@netcom.com Wed Apr 19 03:18:08 1995
Message-Id: <199504190006.UAA22938@brutus.bright.net>
From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
Date: Wed, 19 Apr 1995 00:00:40 -4
Subject: Dayton Forum Info - (partial)

G3RJV will be doing a forum Friday - Building Your Own HF Transceiver - Some Practical Approaches. It is from 3:30 to 5:00. I know there will also be other QRP forums on Saturday and Sunday, but I am not sure what time or when. I believe that in is on forming local QRP clubs - moderated by W1FMR.

Another forum that might be of interest to QRPer is Saturday morning at 9:00 (or is it 9:30??) KK7B will be doing a one hour talk, and he will be going over his miniR2 receiver and a new board to go with the miniR2 (or R2) and T2 to make a complete SSB/CW xcvr. He will be slanting the talk toward using it as an IF rig for VHF/UHF work, but as a standalone rig, it will make a top notch rig. a twenty meter version of this rig will be at the QRP suite at Days Inn South Thursday, Friday, and Saturday evenings.

Thursday evening - There is nothing official going on that I am aware of, but enough people are there that there will be a crowd at the suite....

73 - Bill Kelsey - N8ET
Kanga US
kanga@bright.net
419-423-4604

From owner-qrp-l@netcom.com Wed Apr 19 10:44:12 1995
Date: Wed, 19 Apr 1995 06:10:15 -0700
Message-Id: <199504191310.GAA03902@ix3.ix.netcom.com>
From: jeffa@ix.netcom.com (Jeff Anderson)
Subject: DigiVFO

I've always been curious just how noticable receiver degradation would be when using a DDS based VFO vs. a pure sine-wave oscillator. I think one of these kits would be a simple way to do some experimenting. Some things I'd like to try are:

- o Compare receiver performance between DDS and analog VFO.

- o How does performance change if increase DAC to, say, 10 or 12 bits from the original 8?
- o Double the DDS frequency range by feeding the output into a 4 quadrant multiplier (after first low-pass filtering with a filter cut-off of, say, 15 MHz). Now a 0-15 MHz span becomes 0-30MHz. Voila - an accurate signal source for the workbench!

I've just sent a message off to the article's author asking him if he's noticed any degradation. I'll let the list know what I find out.

- Jeff, WA6AHL

Might be time to build my R2 kit! (once I finish the Sierra...)

From owner-qrp-l@netcom.com Wed Apr 19 14:41:40 1995
 Message-Id: <199504191314.JAA05797@jfwhome.funhouse.com>
 Subject: Re: DIGIVFO - May QST
 Date: Wed, 19 Apr 1995 09:14:01 -0400
 From: "John F. Woods" <jfw@jfwhome.funhouse.com>

> Seems nice and slick. But with so many close-in spurs at 70 dB down, you
 > might be asking for lots of received birdies.
 > The best way to clean it up is probably with a carefully-designed PLL,
 > like that Rohde design a few months ago. Sure, it's complicated.

You'll note, in fact, that he borrows his rig's carefully-designed PLL to do just that! This is the second time I've seen a digital VFO article where the author waxed enthusiastic about how an \$80 chip was going to entirely replace analog VFOs, and then mumbled something about spurs and how maybe you'll need some kind of analog gizmo to paper over them...

From owner-qrp-l@netcom.com Wed Apr 19 22:07:29 1995
 From: rehm@zso.dec.com
 Message-Id: <9504191606.AA28207@slugbt.zso.dec.com>
 Subject: Re: DIGIVFO - May QST
 Date: Wed, 19 Apr 95 09:06:46 -0700

> The best way to clean it up is probably with a carefully-designed PLL,
 > like that Rohde design a few months ago. Sure, it's complicated.

Has anyone tried to build this? (March '95 QST).

I think the biggest issue would be programming the micro{processor,controller} for the thing. However, there is a microcontroller that seems *very* easy to develop code for - the "Basic Stamp". I don't have the specs in front of me, but it uses one of the popular

microcontrollers and has a built-in BASIC (byte-code) interpreter and a EEPROM that will store up to 2 Kb (wow!) of user code. Relatively inexpensive too...\$99 I believe.

/eric rehm
KJ7AE

From owner-qrp-1@netcom.com Wed Apr 19 22:07:49 1995
Date: Wed, 19 Apr 95 12:53:40 EST
From: "Bob White" <Bob_White@CCMAIL.AEROSYS.LORAL.COM>
Message-Id: <9503197983.AA798321287@CCMAIL.AEROSYS.LORAL.COM>
Subject: Dumb Terminal for HP 48G Calculator

Does anyone on the list have a dumb terminal program for the HP 48G calculator which would be suitable for packet work? I have a copy of a program called DTERM, but it drops the end of lines (with char line length greater then about 30 chars).

Thanks and 72/3,
Bob White W03B
bob_white@ccmail.aerosys.loral.com

From owner-qrp-1@netcom.com Wed Apr 19 23:00:52 1995
Date: Wed, 19 Apr 95 15:08:45 EST
From: elsh@if.ufrgs.br (Emerson Luis de Santa Helena)
Message-Id: <9504191808.AA03958@if.ufrgs.br>
Subject: Duvida Atroz

reply qrp-1@netcom.com
send agra

From owner-qrp-1@netcom.com Thu Apr 20 06:44:43 1995
Message-Id: <9504200124.AA13284@comtech.com>
Date: Wed, 19 Apr 1995 18:25:28 PDT
From: gap@comtech.com (Greg Prior)
Subject: Easy xtal measurement

I am working on building a crystal IF filter for a QRP receiver. I understand that the crystals need to be matched for resonant frequency.

Does anyone have a quick and easy way to make the measurement?

I don't have a counter, but I do have access to a nice HP digital scope that has an automatic measurement function that reads out in frequency. Would this be adequate?

I believe the spec on most xtals is +- 50 Hz. Is it close enough to just use them without matching?

Thanks,
Greg Prior AC6IY gap@Comtech.com
Comtech Labs, Inc. Los Gatos, CA

From owner-qrp-l@netcom.com Wed Apr 19 16:15:25 1995
Subject: equipment sale
From: brian.carling@acenet.com (Brian Carling)
Message-Id: <2a6.20851.500@acenet.com>
Date: Wed, 19 Apr 1995 08:42:00 -0500

>From: brian.carling@acenet.com

MESSAGE TO QRP-L:

I have a few items here that may be of interest to QRP ops.
There are also a slew of other electronic/computer items I have
for sale, so if anyone is interested, please E-mail me, & I
will send you back the whole list. Here goes:

FOR SALE: # REPLY By E-mail ONLY (!) to brian.carling@acenet.com
#####

Kenwood TS-430s with extra filters for AM, SSB, CB. FM board etc.
Very good condition. With manual, DC cord etc. \$610.00
or \$600.00 without AM filter.

MFJ 401-B keyer. Mint condition with manual and AC adaptor ..\$38.00

Compact Condor 110V AC power supply +15V DC and -15V DC at 3 Amps AND
+5V DC at 6 Amps. Brand new, attractive light beige/cream color case
with three connectors. Ideal for QRP rig. Voltages are adjustable.
Includes fused & RFI-filtered AC input circuitry. Fully protected,
with Sonalert trip alarm for overload. Compact size: 3" X 5" X 10"
with ON/OFF switch and rubber feet. Priced to sell at only \$24.00

Heavy duty footswitch, heavy cast metal case, 115V AC 10A
with commercial duty AC plug and receptacle. Can be used as PTT
switch for ham radio, or musician's effects uses..... \$7.00

AC adapter, heavy duty type 14.5 V DC at 500+ mA, ideal for charger etc.
with standard co-axial connector. New..... \$ 7.50

SHIPPING costs additional on all items.

Brian Carling
Gaithersburg, MD

Internet -> brian.carling@acenet.com
Reply here or call (301) 990-6070 BEFORE 10 pm EDT

~ SLMR 2.1a ~ So many conferences, so little time.

From owner-qrp-1@netcom.com Thu Apr 20 06:58:58 1995
From: Duncan Cadd <dcadd@luc.ac.be>
Message-Id: <9504200815.AA21255@alpha>
Subject: GQRP - DigiVFO
Date: Thu, 20 Apr 1995 10:15:25 +0200 (MET DST)

Greetings, folks, from a warm and sunny Diepenbeek in N.E. Belgium!

Regarding the merits or otherwise of digi-VFOs, I have a sort-of \$64,000 question. I can understand that, depending on the sampling rate at which a sine wave gets reconstructed, a digitally-synthesised sine wave can have low levels of all manner of harmonics of the sampling frequency. My question is, why are we using digitally-synthesised sinewaves at all if they are only being fed to switching mixers e.g. SBL-1 or SL6440 as I suspect most of them

If you feed a sinewave into an SBL-1 or similar, it only serves to turn the diodes on and off, and if you stick a scope probe on the diodes (ring mixer homebrewers can do this easily) you see that the sine wave is simply clipped to an approximation of a square wave anyway. So, why not feed the switching mixer LO input with a square wave directly ?

I am sure that I read in an old edition of the RSGB Radio Communication Handbook that switching mixers operated more efficiently with square waves in any case, but (this was 20 years ago that this was written!) it was a modification not often done in practice - presumably because 20 years ago the digital technology to clip a variable amplitude analogue VFO signal (most vary their output with frequency) to a nice square wave and at ca. 2-3V p-p into 50 ohms was too much bother to play with. But now it appears we have everything to hand to do this very cheaply, yet go to all the bother of using relatively expensive and slightly complex digital circuitry to approximate a mucky sine wave - which only gets clipped to a square wave when it's used!!!!!!

Are we crazy or what ?!

I don't have any SBL-1s in the junk box at present, nor do I have many bits to cobble together a homebrew ring mixer just to try this out - but I AM sorely tempted this weekend to write a Turbo Pascal program to simulate a DDS as far as the phase incrementer and adder, and get it to stick a variable frequency square wave out of the parallel port!! That seems to me to be fairly simple. Of course, with the MPU clock not being that accurate, it won't correspond to any PARTICULAR frequency, but it ought to demonstrate the principle!

What we need, folks, IMHO, is a nice clean SQUARE wave!

73,

Duncan GOUTY / ON9CHU G-QRP 8117

"It's hip to be square" - Huey Lewis and the News

From owner-qrp-l@netcom.com Wed Apr 19 23:59:10 1995

Message-Id: <n1413823852.82688@msmailgw1.arlut.utexas.edu>

Date: 19 Apr 1995 13:36:46 -0600

From: "rohre" <rohre@arlut.utexas.edu>

Subject: Howes kits and Howes catalog

To Dan Reynolds and the group,

I had gotten a catalog from Townsend Electronics with the Howes and other kits he offered, last year for \$1.

Now, Jim Townsend is closing out the last of his Howes inventory.

He had a few of the programmable counter displays for analog rigs, with offsets for the IF, and a few of the Howes transceivers.

I just received the programmable counter kit I ordered and it is very attractive case silk screened on the front, and very nice parts, and boards are silk screened and tinned, but not solder masked. However, the boards are simple for the purpose, and the lack of a mask is not a problem. The Howes instructions are apparently typical of English kits; they often do not give you a step by step, but suggest mount all of one type of component first, etc. They are adequate, but there is not an itemized parts list separate from the text; thus, they suggest and it is wise, to read through ALL the instructions completely before commencing. But, that is good advice for ANY kit, INMHO. The Howes boards are high quality fiber glass, and are cleanly drilled.

The cabinet is punched on the front and back panels for the mounting screws, and the switch, display, and the coax BNC connector. You do have to drill the back for the DC power binding posts Jim provides; and for the cabinet, you have to

decide the exact board location, and drill the holes for mounting the standoffs for boards. Howes kits come as a series of bags of parts and sub assembly boards, and the Digital Display Counter kit is actually a box kit, and two board kits, with one of those having a small daughter board for power regulator, in addition to the main board. Thus, some decisions are left to the builder on board arrangement; and this might be a kit for someone who has at least built a simple receiver or keyer first, rather than the first time builder. However, if one is skilled with tools, and is knowledgeable about layout, (even by careful observation of photos of others' construction), this display should not present any hurdles.

I was a bit antsy about one thing, however which turned out OK. The descriptions of the kits did not include dimensions of the boxes! They did have height for the digital displays, and I scaled from the photos of knobs and meters of the rigs; but prefer a catalog to have dimensions, even if metric! The DR 4 I received makes a good match with its black panel to my Atlas rigs which is what I wanted, and the shape of the case, and dimensions are very compatible. The approximate 1/2 inch display height should be adequate for the purpose. The overall box height is about 3 inches. I suspect that is kind of a standard box for Howes kits, and since the front panels bolt on with a couple of screws to the bottom U-shaped chassis pan, I would venture to guess Howes does a smart thing with a universal chassis box, and suitable front panels for the specific kit. If anyone on the list can confirm; I think that is a good point, for one could build a complete station from matching cabinets! The line includes SSB and CW only transmitters, Antenna tuning unit, and transceivers, as well as a couple of counters or display units.

Howes is generous with inclusion of extra programming diodes for the offset matrix switching, and I found some extra components. The only variance with the printed instructions, was an obvious substitution in board standoff components. This will present no real problem, except the assembly of standoffs drawing is not pertinent to the ones I got. One rubber grommet was missing, or perhaps supplanted by Jim's thoughtful addition of Binding posts for power leads, rather than flying leads out a grommet. You have to provide your own power supply, and the daughter board regulates it down to what the circuits need.

As I posted some time ago, the kit list has the still working FAX no. for Jim Townsend, but the electronics phone was disconnected. He has another phone apparently under Jim Townsend and Son. I think I posted that; but anyone needs it again, just email me directly. Jim got out of the business, because his extensive catalog did not get the response he expected; but one must wonder how much factors like not providing dimensions of units may influence potential buyers?

--72, Stuart K5KVH

From owner-qrp-l@netcom.com Wed Apr 19 21:59:10 1995

Date: Wed, 19 Apr 1995 12:04:20 -0600 (MDT)

From: Rick Zabrodski <zabrodsk@med.ucalgary.ca>

Subject: Re: HW9 BA 244 diode question
Message-Id: <Pine.SUN.3.91.950419120056.5320C-100000@ume>

On Tue, 18 Apr 1995 LVE1@inel.gov wrote:

> >Figured out why my "home brew after market" WARC modification does not work.
> >I naively substituted in914 diodes for the BA 244 ones.....what are
> >they?....I see no such beast listed in the
> >ARRL handbook!
> >
>
> According to my 1976 SEMICONDUCTOR D.A.T.A.BOOK --
>
> VHF Switch: VBR 20V min; C 2.0pF max @ 15V; RS 0.5 Ohm max @10mA; LS 2.5nH typ.
>
> It would appear to be similar to a PIN switching diode, but it is not listed
> as a PIN type. What's it used for in the HW9? If its used to switch xtals,
> band-pass filters, or some such, I would think that a 1N914 would at least
> sort-of work (might detune something slightly, tho).
>
> 72, Larry W1HUE/7
>

If this is the case, you have me concerned as this is the exact application in question. However, the substituted diodes are the only "common" problems in the 4 affected bands. The in914 diodes seem to give much decreased or no signal level/voltage compared to the ba 244's. I will pick some up and try them in one band first I guess.

Thanks! Rick VE6GK>

From owner-qrp-1@netcom.com Wed Apr 19 21:58:51 1995
From: Byron8LCZ@aol.com
Date: Wed, 19 Apr 1995 14:34:06 -0400
Message-Id: <950419143404_88728336@aol.com>
Subject: Marconi on TV

Just received this info from ARRL and knew it would be of interest to the group:

ZCZC AX88
QST de W1AW
Special Bulletin 19 ARLX019
>From ARRL Headquarters
Newington CT April 18, 1995
To all radio amateurs

SB SPCL ARL ARLX019

ARLX019 Marconi program on TV

Marconi program on TV

On Wednesday, April 19, the Arts and Entertainment television network will air a program about Guglielmo Marconi, as part of its ''Biography'' series.

The program is scheduled for 8 PM Eastern Time.
NNNN

72, Byron WA8LCZ

From owner-qrp-1@netcom.com Wed Apr 19 22:35:56 1995
Subject: Re: Max DC supply voltage for NORCAL 40A
Date: Wed, 19 Apr 1995 15:08:12 -0700
Message-Id: <23723.798329292@safety.ics.uci.edu>
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>

Just a note - I took my NorCal 40 out into the Sierras last summer and operated it with 10 AA cells. This, at the outset, gives well over 15 volts, until the batteries begin to dwindle a little. I had no problems at all. As you can guess, up in the Sierras, the NorCal 40 gave me more contacts than my 2 meter HT did, just too many rocks around and too many mountains in the way for the most part for VHF operation.

Clark
WA3JPG

From owner-qrp-1@netcom.com Wed Apr 19 15:11:35 1995
Date: Wed, 19 Apr 95 09:15:20 PST
From: TLeonard@ccmgate.mti.com (Leonard, Tim)
Message-Id: <9503197983.AA798308120@ccmgate.mti.com>
Subject: Re: No subject given

Mike,
You are going to have a lot of competition from packet in that band (14.100 to 14.110); the current band plan reserves it for this purpose. However, 14.115 to 14.130 is usually free.

Tim

From owner-qrp-1@netcom.com Thu Apr 20 05:18:13 1995
From: BRUCE3900@delphi.com
Date: Thu, 20 Apr 1995 00:59:18 -0400 (EDT)
Subject: Ocean State Electronics

Message-Id: <01HPJKEAZQZG99GSS7@delphi.com>

Friends:

Please note that I have no connection with Ocean State Electronics. I do not work there, I do not own stock there, in fact I've never even ordered parts from there. I simply researched and wrote a short atricle for HAMBREW that told some of the real story about the fabled demise of Ocean State Electronics. They are alive and well in Rhode Island, THE OCEAN STATE. They are not located in Maryland.

Please do not send requests for catalogs to me. I've posted their address and phone number several times. I will post it again at the end of this diatribe.

It do make wonder if anyone out there can rerad.

Once and for all, and the last tuime:

OCEAN STATE ELECTRONICS

PO Box 1458

6 INDUSTRIAL DRIVE

WESTERLY, RHODE ISLAND 02891

1-401-596-3080

1-401-596-3590 (FAX)

1-800-866-6626 (ORDER)

thanks

From owner-qrp-l@netcom.com Wed Apr 19 10:49:45 1995

From: Johnson Russ <JohnsonR@rnd2.indy.tce.com>

Subject: QRP Field Day

Date: Wed, 19 Apr 95 08:54:00 PDT

Message-Id: <2F9531E5@MSMAIL.INDY.TCE.COM>

How about some comments on QRP Field Day operations. We at the Thomson Consumer Electronics (formerly RCA) Amateur Radio Club have been running QRP for several years now and find it a lot of fun. We run 1A-Battery class and usually end up somewhere in the middle of the class. We only have one serious contester so it is more of a fun operation than a contest. Our station is usually:

Kenwood rig running at 5 watts. (Hope to use the QRP+ this year if it arrives intime!)

Tri-band driven element on a push up mast at 60 feet (20, 15,10)

Coax dipoles for 80 and 40

We run about 70/30 phone and cw.

Russ Johnson N9RJ

johnsonr@indy.tce.com

From owner-qrp-l@netcom.com Wed Apr 19 16:14:18 1995
Message-Id: <199504191612.AA21624@zia.aoc.nrao.edu>
Date: Wed, 19 Apr 1995 10:12:56 -0600
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: Re: QRP Field Day

Here in Socorro, New Mexico, there has historically only been two of us that run the CW station for FD (and getting kinda burned out that our 2 man effort always seems to be 2/3rds of the clubs score!). With a coupla other hams suddenly bitten by the CW and QRP bug here, we are really considering stomping off to the mountains or desert somewhere and running a QRP only FD station. One of these hams just got his QRP+ which got a bit of working during the QRP to the field thing.

I agree ... I'd like to see QRP take over FD this year. I participate in FD primarily for the fun ... the score is always secondary. A couple of days off somewhere with nothing but a bunch of QRP CW ops has GOTTA be fun. Might even get some operating in, too!

So how much interest out there in INET land is there for local clubs to do a QRP FD? From the recent QRP Afield thing, I would say fairly strong. By orchestrating some informal frequency plans thru the great QRP-L and perhaps even some schedules, we could do quite well.

72, Paul NA5N

From owner-qrp-l@netcom.com Thu Apr 20 06:24:04 1995
Date: Wed, 19 Apr 1995 21:36:11 -0700
Message-Id: <199504200436.VAA24848@mailhost.primenet.com>
From: aa7qy@PrimeNet.Com (Roger Hightower)
Subject: Re: QRP Field Day

>So how much interest out there in INET land is there for local clubs to
>do a QRP FD?

>

>72, Paul NA5N

>

The same group of us who worked QRP to the Field are going to do a pure QRP Field Day....our local club has been notified, and we hope to make it a club effort. Since I'm the trustee, we'll be using the club call (when FCC gets around to issuing it, HI!) Hope to see you all on the bands.

73, de Roger AA7QY
aa7qy@primenet.com rhigh@aztec.asu.edu Ham Radio: AA7QY@KC7Y.AZ.USA.NA

From owner-qrp-1@netcom.com Wed Apr 19 13:18:39 1995
From: LVE1@inel.gov
Message-Id: <9504191540.AA24090@garnet.inel.gov>
Date: Wed, 19 Apr 1995 09:41:33 -0600
Subject: Receiver noise problem solved!

I fired up my trusty old Agronaut 509 on 20 meters last Saturday morning, and heard nothing but noise between 14 MHz and about 14.1 MHz! But only with the antenna (a 5 band trapped vertical) connected; the same antenna connected to my FT-301 produced NO excessive noise (on any band)! Other bands on the 509 were OK -- just the low end of 20 was noisy. So, I set about looking for bad solder connections, etc. in the 509 front end; even went so far as to completely re-align it. No improvement! Figured maybe the problem was caused by a local AM broadcast station (the noise did sound a bit like splatter), so I whipped together a high pass filter (low frequency cutoff of about 2.5 MHz or so) at the 509 RF amp input. Noise was still there!! Did more piddling around in the 509, but could not find anything amiss. Then I happened to connect my high pass filter (a hold over from vacuum tube rig days...) between the 509 and antenna -- presto! The noise was gone!

As near as I can tell, the problem is being caused by a new high power FM broadcast transmitter located on a hill about 4 miles from me. Why it only effects the low end of 20, I don't know! Anyway, the "final solution" was to re-wire the input to the 509 receiver so that signals pass through the transmitter output filter rather than coming directly from the antenna connector. Now I can hear DX on 20 again!!

Another triumph of man over machine...

"Any opinions expressed herein are my own and probably do
not agree with those of my employer, the U.S. Government
or my spouse"

--... ..--

Larry V. East (W1HUE)

Idaho Falls, ID

e-mail: LVE1@inel.gov

Packet: W1HUE@WT7B.ID.USA.NOAM

work: (208) 533-4005 home: (208) 529-2162

From owner-qrp-1@netcom.com Wed Apr 19 22:08:53 1995
Date: Wed, 19 Apr 95 10:36:59 MDT
From: miker@cc.com (Mike Robinson)
Message-Id: <9504191636.AA19470@cc.com >

Subject: Re: Re[2]:

Hi Jim,

Yes and no. The humor is in the fact that anyone can proclaim anything they want. The seriousness is that a proclamation such as mine could lead to a trend and finally a new bandplan.

Wouldn't it be great to have the ARRL and FCC dedicate sections of the bands for QRP CW only? If a seed is planted that results in this kind of a benefit, then never planting the seed would be an injustice.

As I said in my original message, this had been tried once before but kind of faded away. I wanted to try it again with a definite and hard statement.

Comments are coming now about using 14.100-14.110 because of current occupation by digital. This is understandable. Another argument is that some homebrew rigs don't go that high on 20m. Once I've seen all the comments, I'll re-proclaim.

In the mean time, look at all the people that are thinking about it. This is great fun!

```
=====
7.3 de Michael aa0ub          | QRP:
miker@cc.com                 Norcal #857 | "This thing's a radio?"
=====
```

From owner-qrp-l@netcom.com Wed Apr 19 05:28:38 1995
From: JEVERHART@cayman.VF.MMC.COM
Date: Tue, 18 Apr 1995 23:03:30 -0400 (EDT)
Message-Id: <950418230330.23845dd4@carib.vf.mmc.com>
Subject: Room at Dayton

Gang,

Now that I have heard from Myron Koyle AND confirmed my room with Days Inn Dayton South, I'm sure I have a room. I hedged my bets earlier and reserved a room at the Days Inn Dayton Midtown to be sure I wouldn't be homeless for the Hamvention weekend (more importantly, my WIFE would have a place to sleep).

Anyway, I'm going to cancel my reservation at Days Inn Midtown tomorrow. If anyone is stuck for a room there will be one available (at least for a

nanosecond or two) at Midtown. Considering how rare vacancies are that weekend, you better act fast!

72/73,

Joe E. N2CX

From owner-qrp-1@netcom.com Thu Apr 20 00:29:25 1995
Date: Wed, 19 Apr 95 17:23:29 PST
From: Mark E Gustoff <Mark_E_Gustoff@ccm.ch.intel.com>
Message-Id: <950419172329_9@ccm.hf.intel.com>
Subject: Status on QRP+ Group Order?

Text item:

Does anyone have the status of the group order of QRP+ rigs?

Last status I saw posted said mid-April, but no sight of mine yet.

Also, on the matter of mics, I built up a Ten-Tec desk mic from their kit catalog which works great. It worked so good that a friend here at work with a QRP+ built one also. I highly recommend this mic if you're willing to part with \$50.

72,

Mark
de W07T/QRP

Text item: External Message Header

The following mail header is for administrative use
and may be ignored unless there are problems.

IF THERE ARE PROBLEMS SAVE THESE HEADERS.

Precedence: list
Sender: owner-qrp-1@netcom.com
Subject: How to unsubscribe - please SAVE this message
To: qrp-1@netcom.com
Message-Id: <199503011525.HAA13269@netcom4.netcom.com>
>From: n1list@netcom.com (Michael L. Ardai)
Date: Wed, 1 Mar 1995 07:25:39 -0800
Received: by netcom4.netcom.com (8.6.9/Netcom)

id HAA13269; Wed, 1 Mar 1995 07:25:39 -0800
Received: by netcom4.netcom.com (8.6.9/Netcom)
id HAA13278; Wed, 1 Mar 1995 07:25:40 -0800
Received: from netcom4.netcom.com by ormail.intel.com with smtp
(Smail3.1.28.1 #7) id m0rjrRm-000UeOC; Wed, 1 Mar 95 08:40 PST
Received: from ormail.intel.com by relay.jf.intel.com with smtp
(Smail3.1.28.1 #2) id m0rjrRo-000twcC; Wed, 1 Mar 95 08:40 PST

From owner-qrp-1@netcom.com Thu Apr 20 00:10:19 1995
Date: Wed, 19 Apr 1995 20:12:37 -0400 (EDT)
From: Mark D Jarmuz <jarmuz@acsu.buffalo.edu>
Subject: wanted arognaut II
Message-Id: <Pine.3.89.9504192019.A3709-01000000@orichalc.acsu.buffalo.edu>

gang
My qrp buddy is in search of an argonaut II...
If anyone has one for sale give him a call at
716-674-2739.....Dick,AA2WJ.....
He does not have access to I-Net....

73s,72sDave AA2PeterFox.....